

Fig. 1

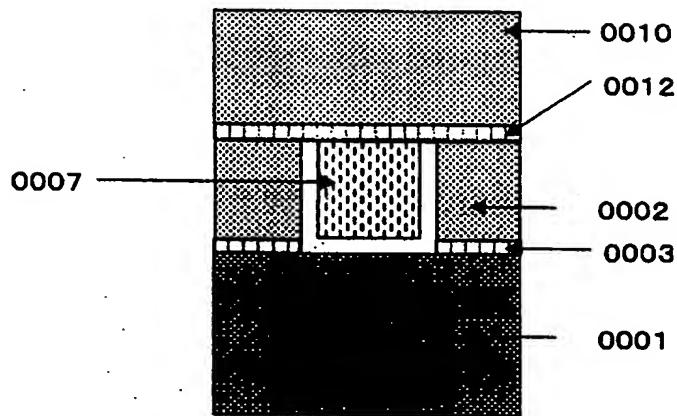
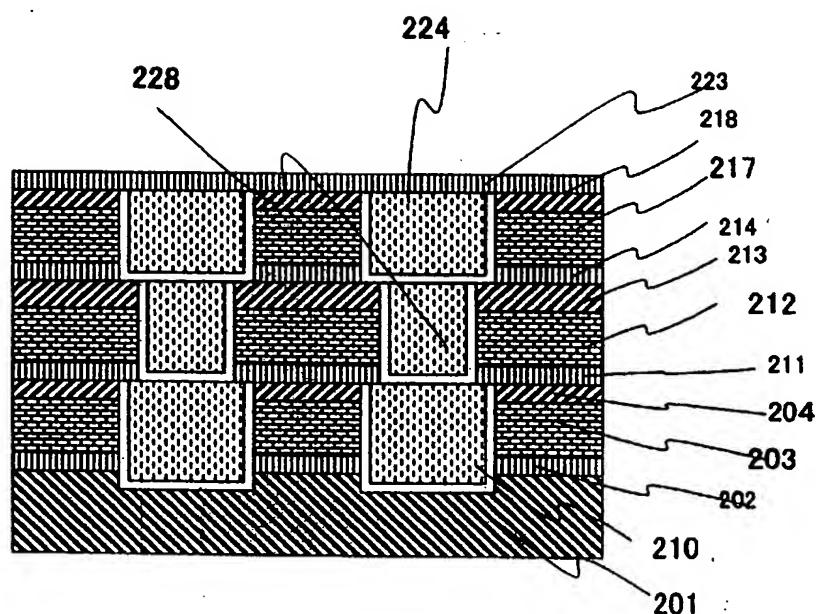


Fig. 2



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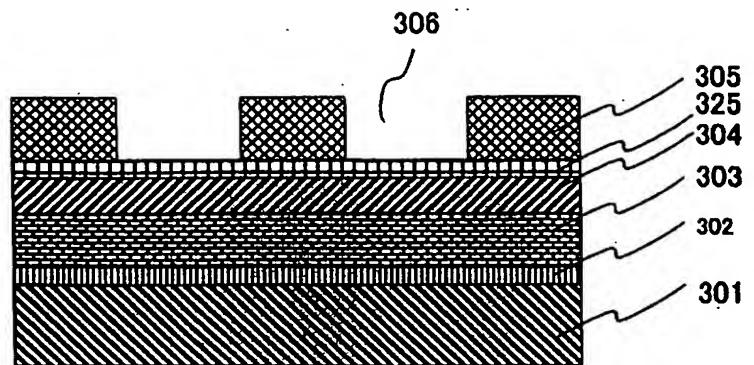


Fig. 3(a)

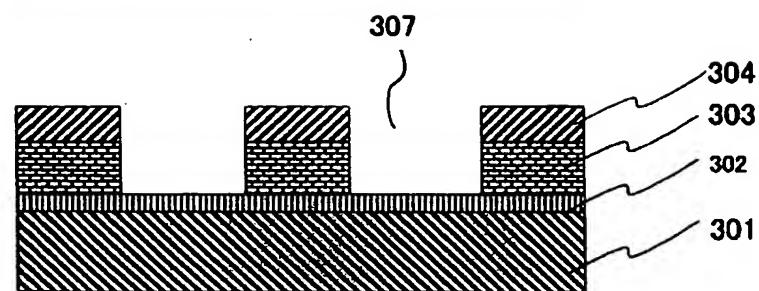


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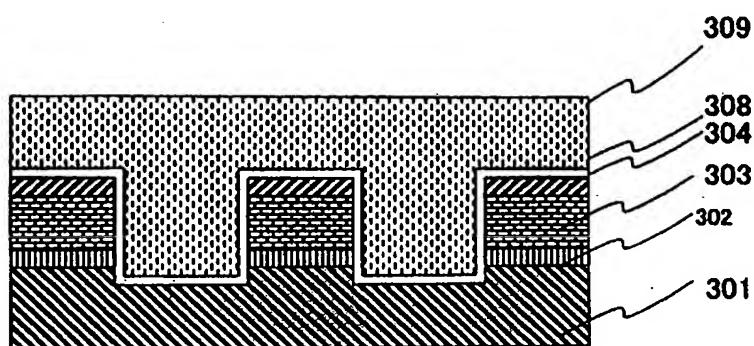


Fig. 3(c)

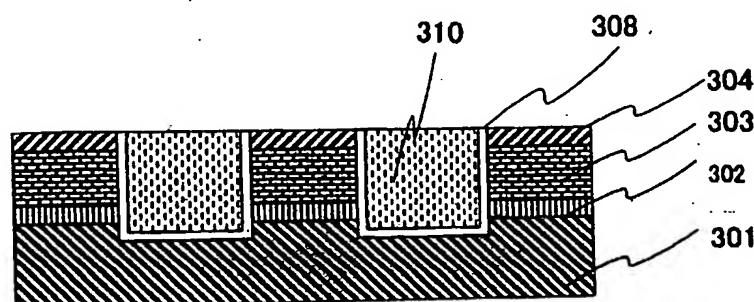


Fig. 3(d)

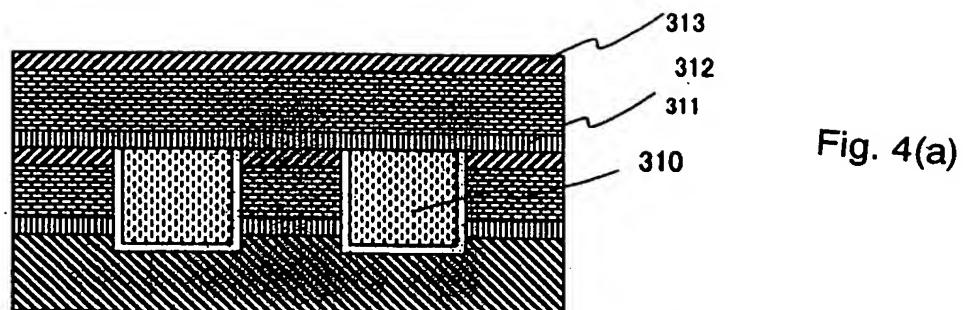


Fig. 4(a)

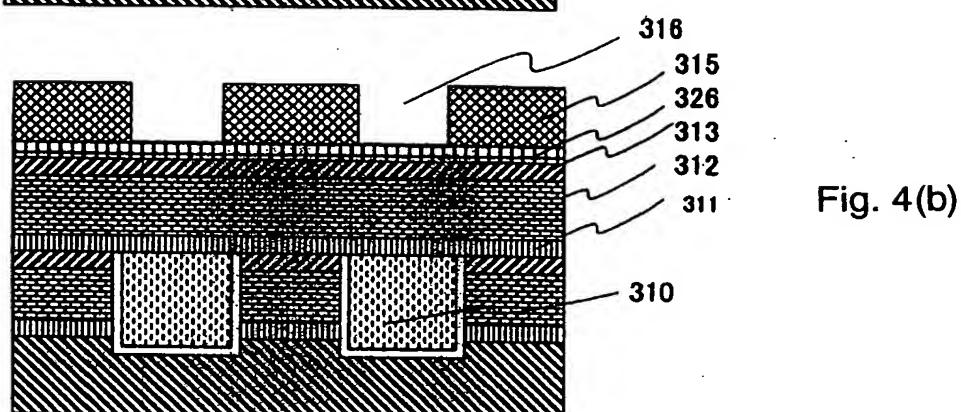


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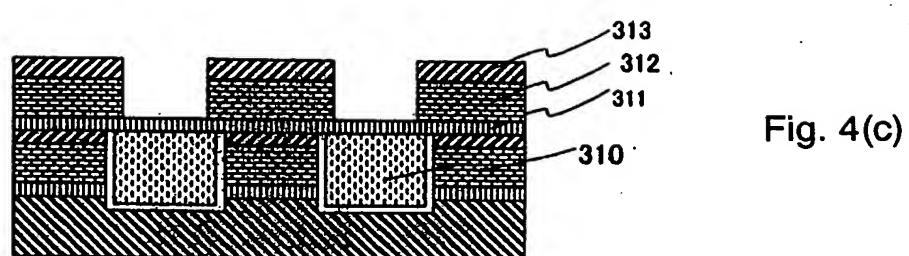


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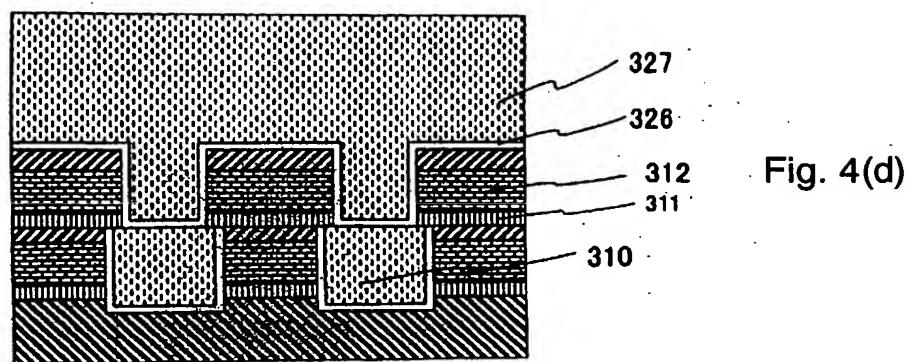


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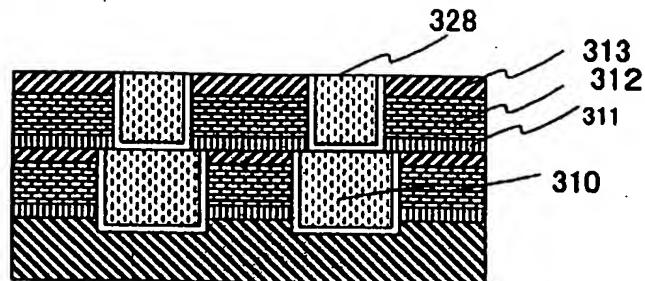


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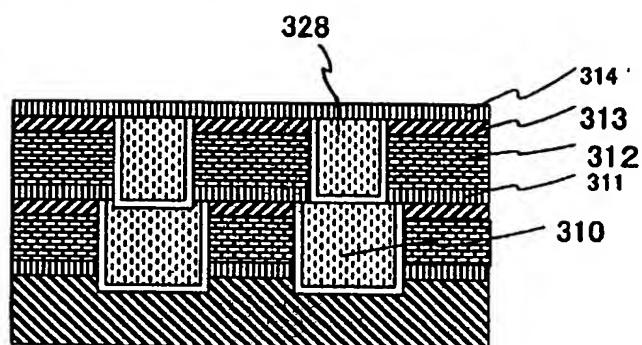


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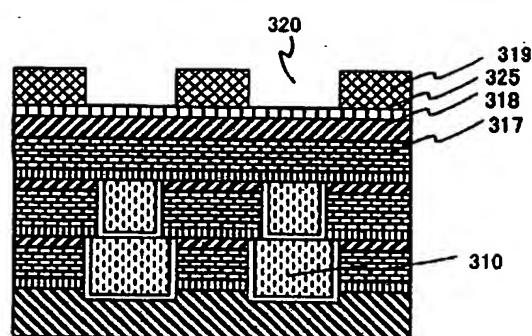


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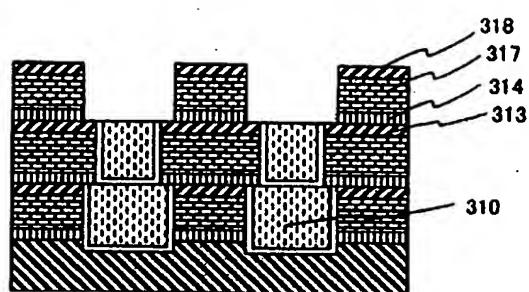


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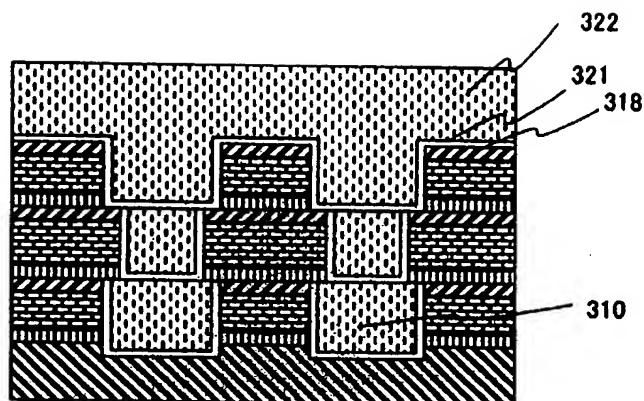


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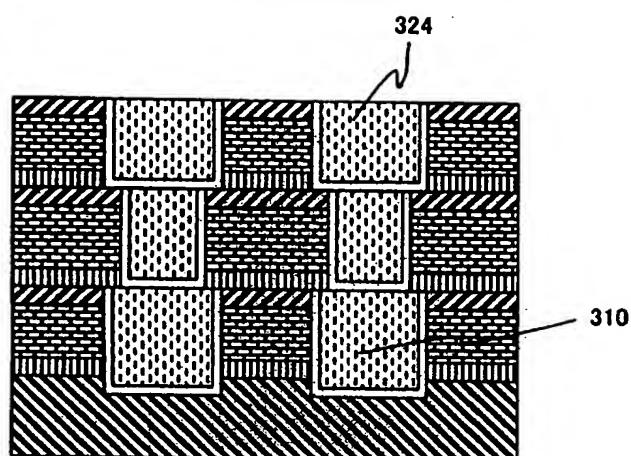


Fig. 6(b)

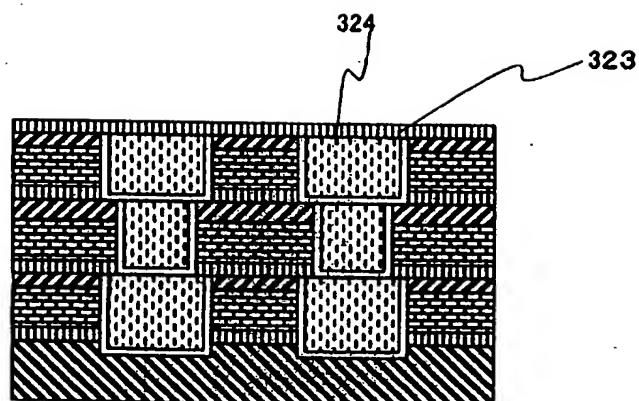
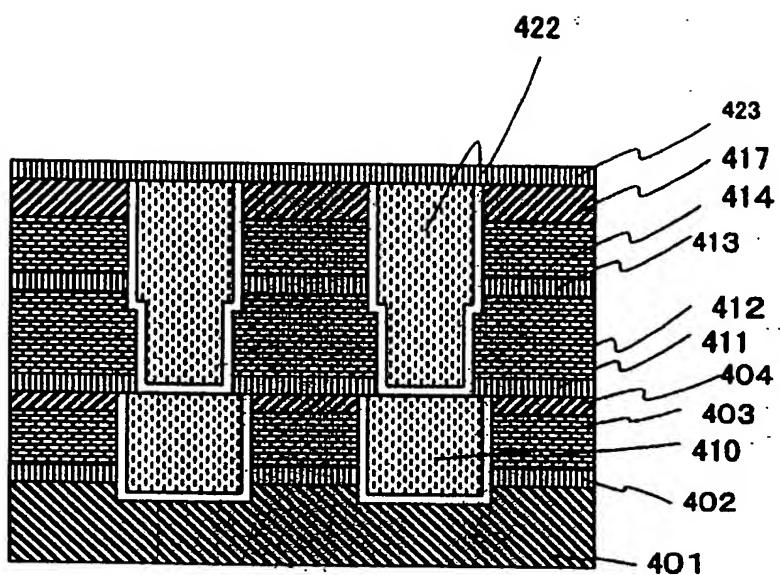


Fig. 6(c)

Fig. 7



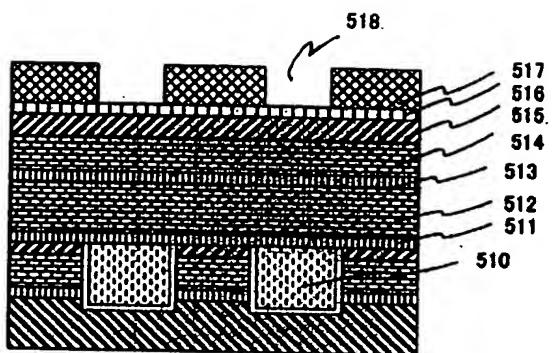


Fig. 8(a)

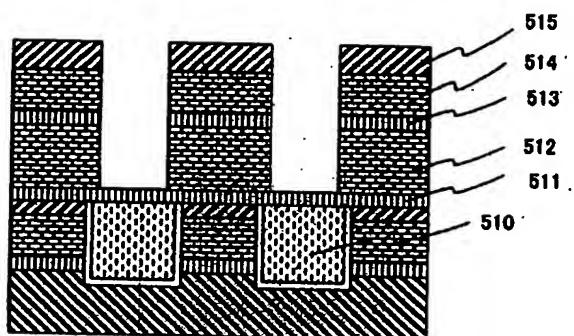


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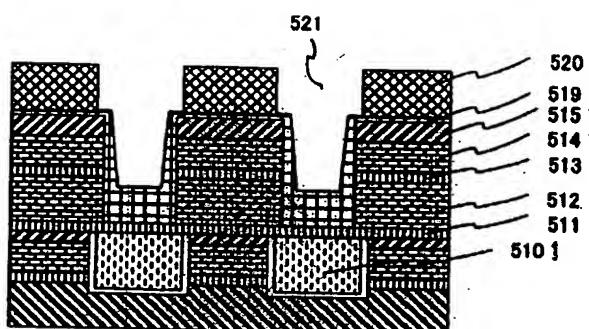


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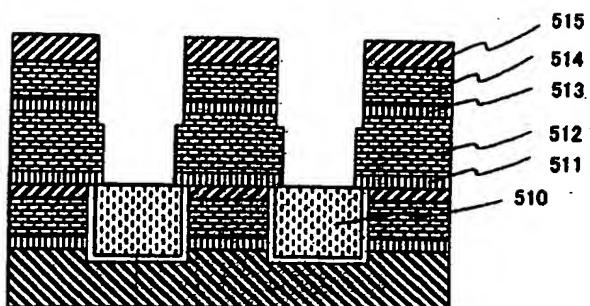


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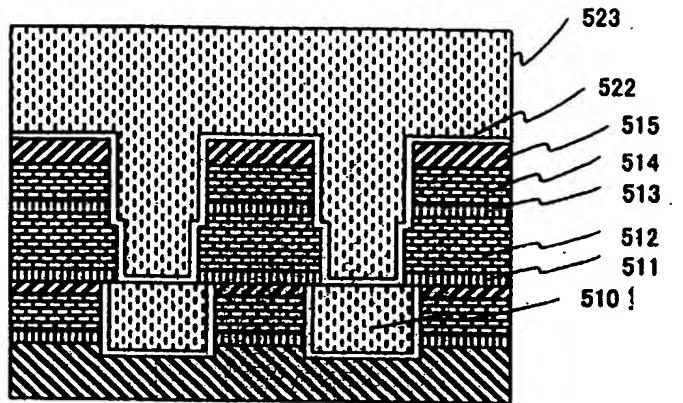


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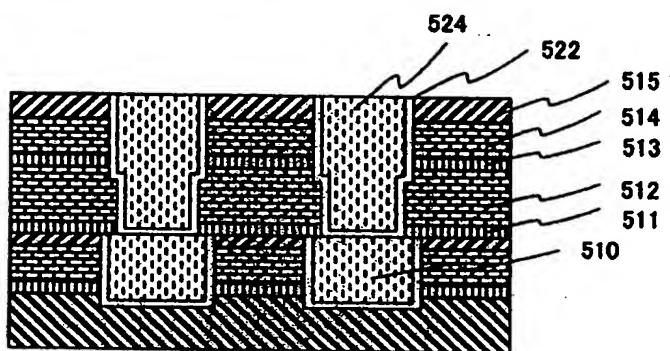


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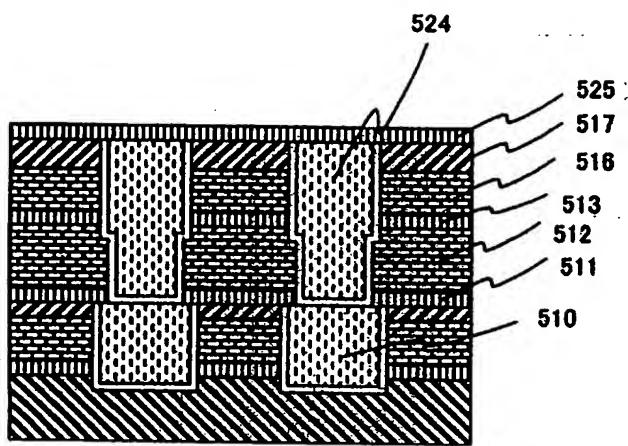


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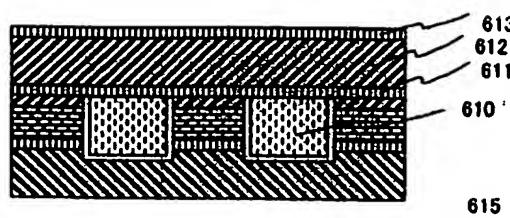


Fig. 10(a)

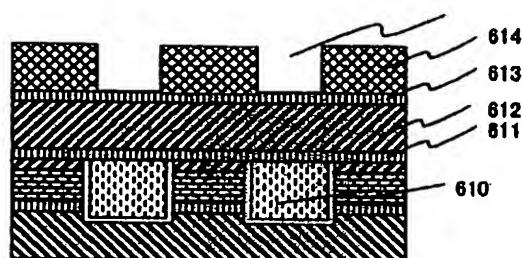


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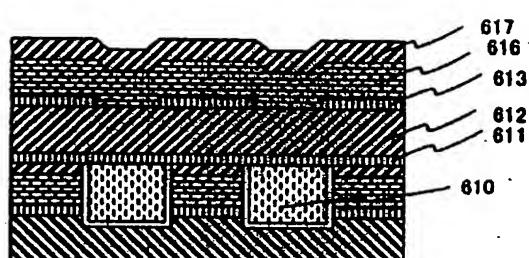


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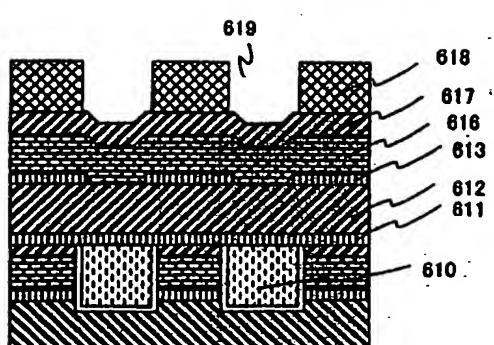


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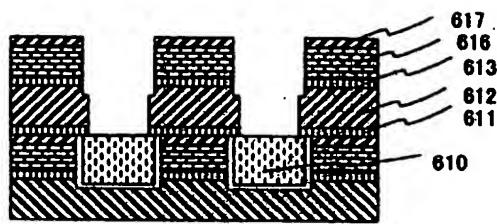


Fig. 11(a)

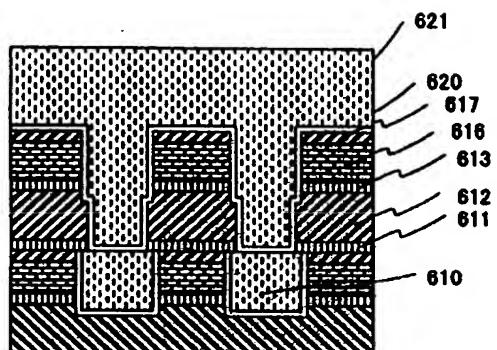


Fig. 11(b)

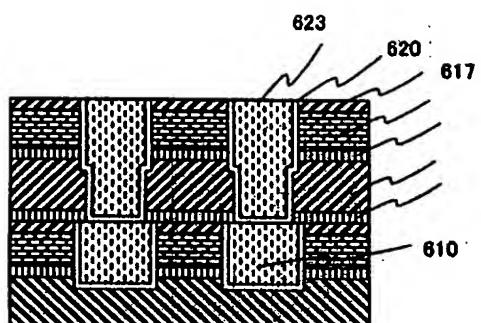


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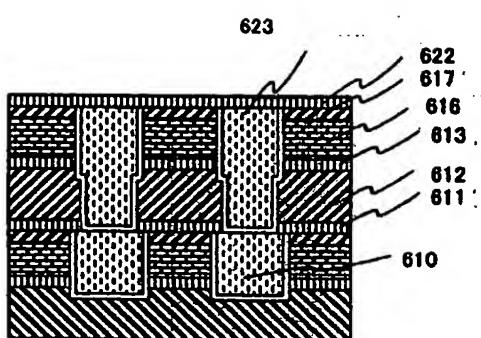


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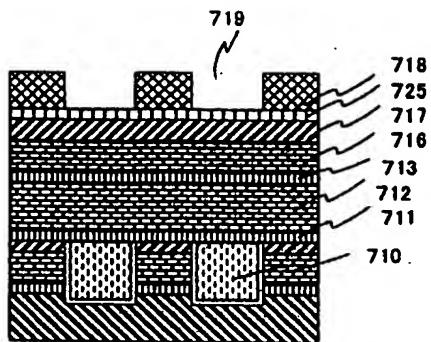


Fig. 12(a)

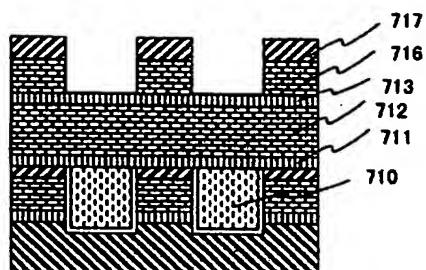


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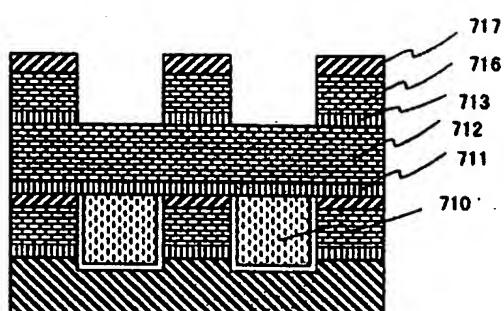


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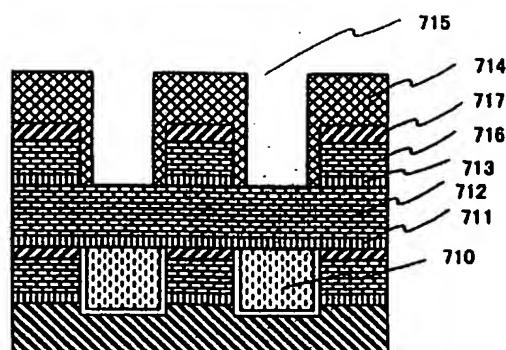


Fig. 12(d)

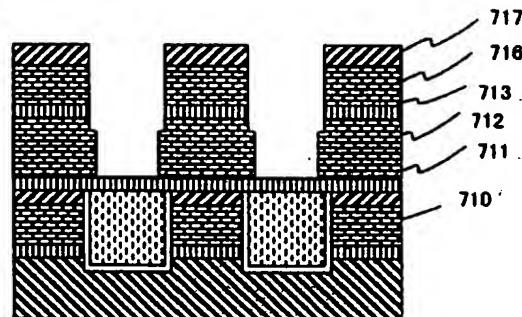


Fig. 13(a)

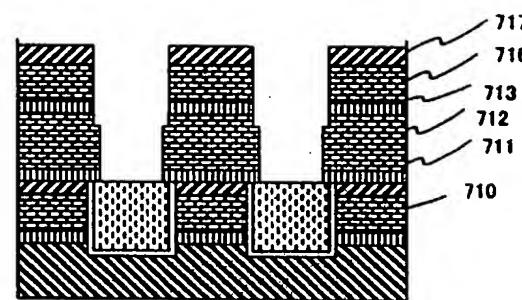


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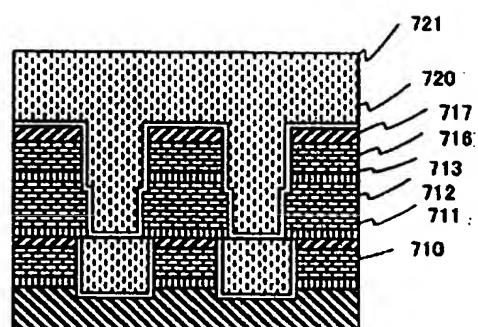


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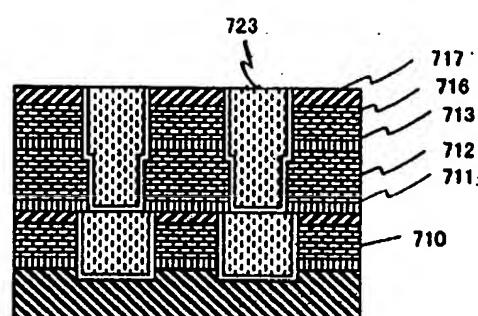
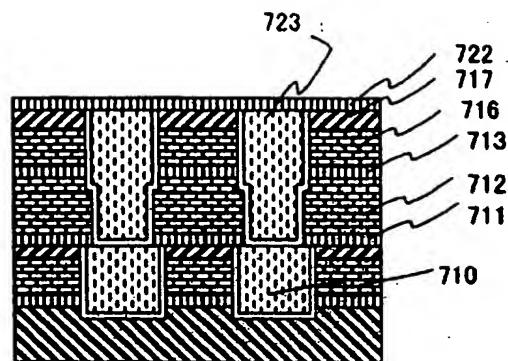


Fig. 13(d)

**Fig. 14**



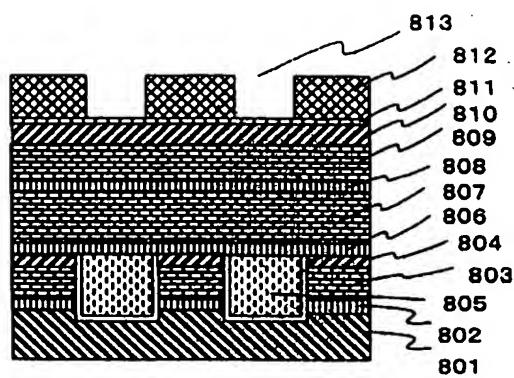


Fig. 15(a)

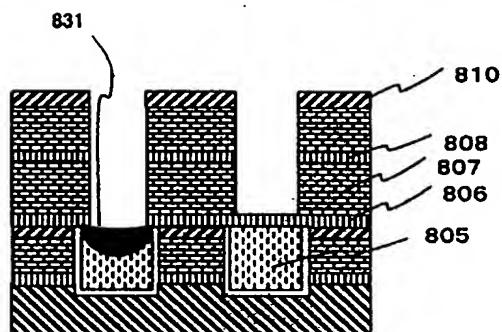


Fig. 15(b)

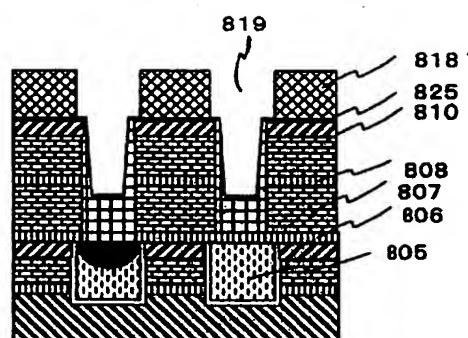


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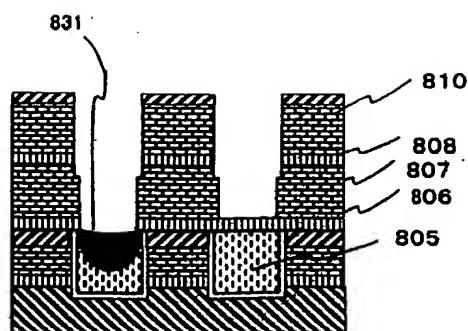


Fig. 15(d)

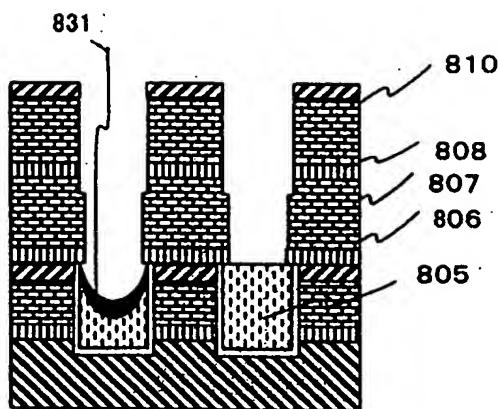


Fig. 16(a)

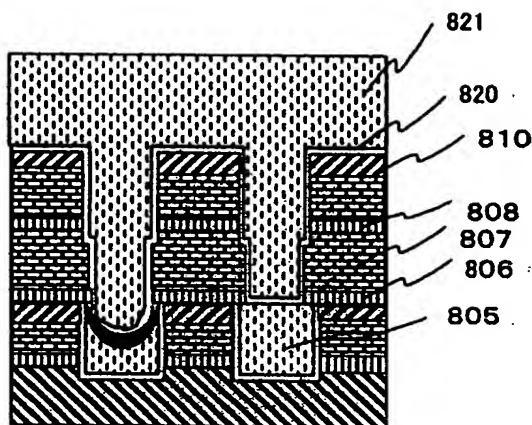


Fig. 16(b)

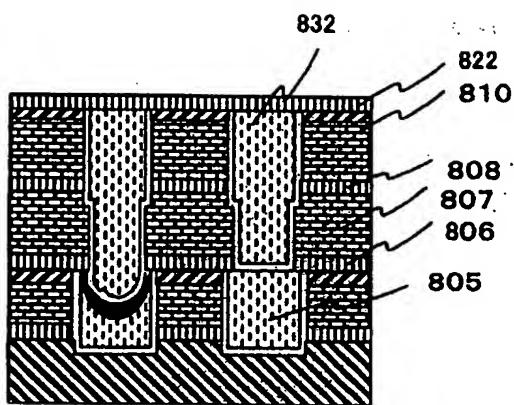
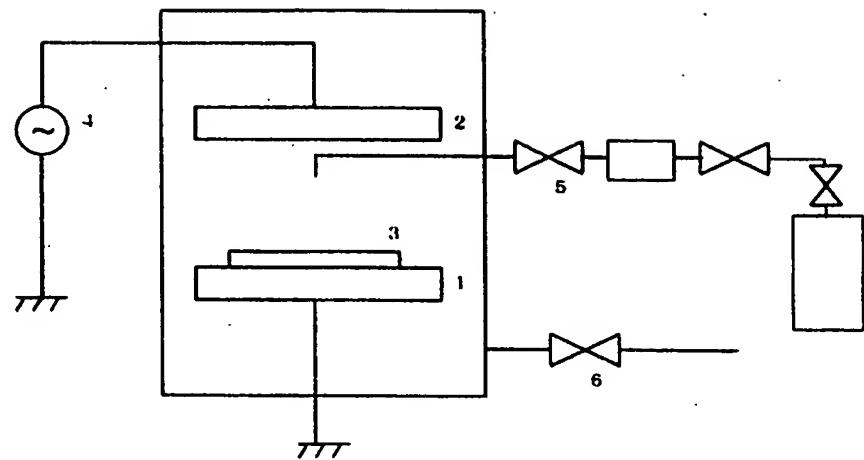
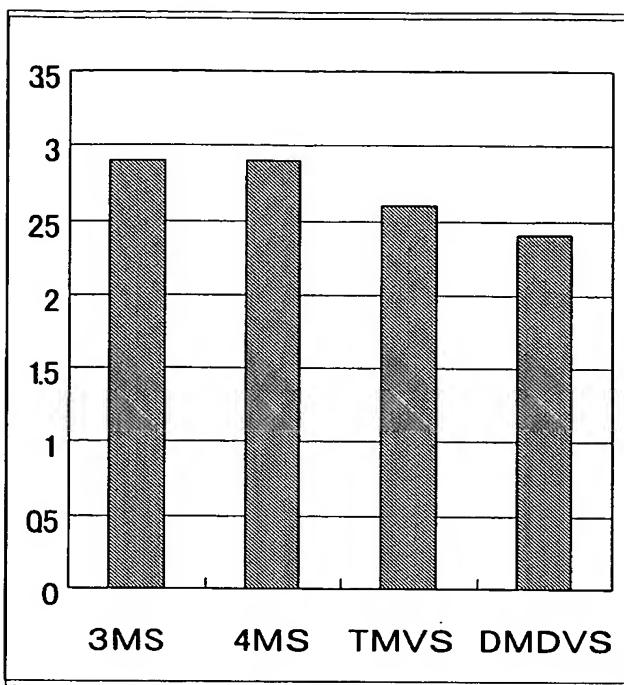


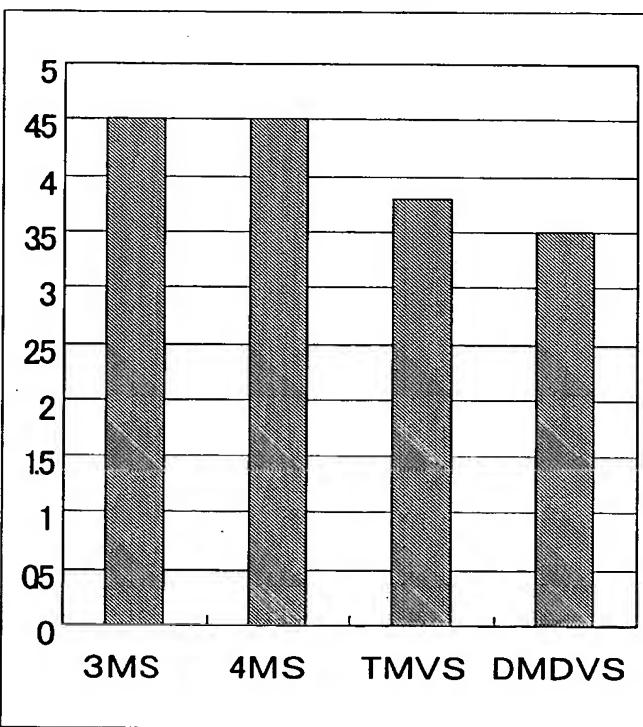
Fig. 16(c)

Fig. 17





**Fig.18** The dielectric constants of the SiOCH films formed with various gases.



**Fig.19** The dielectric constants of the SiCH films formed with various gases.

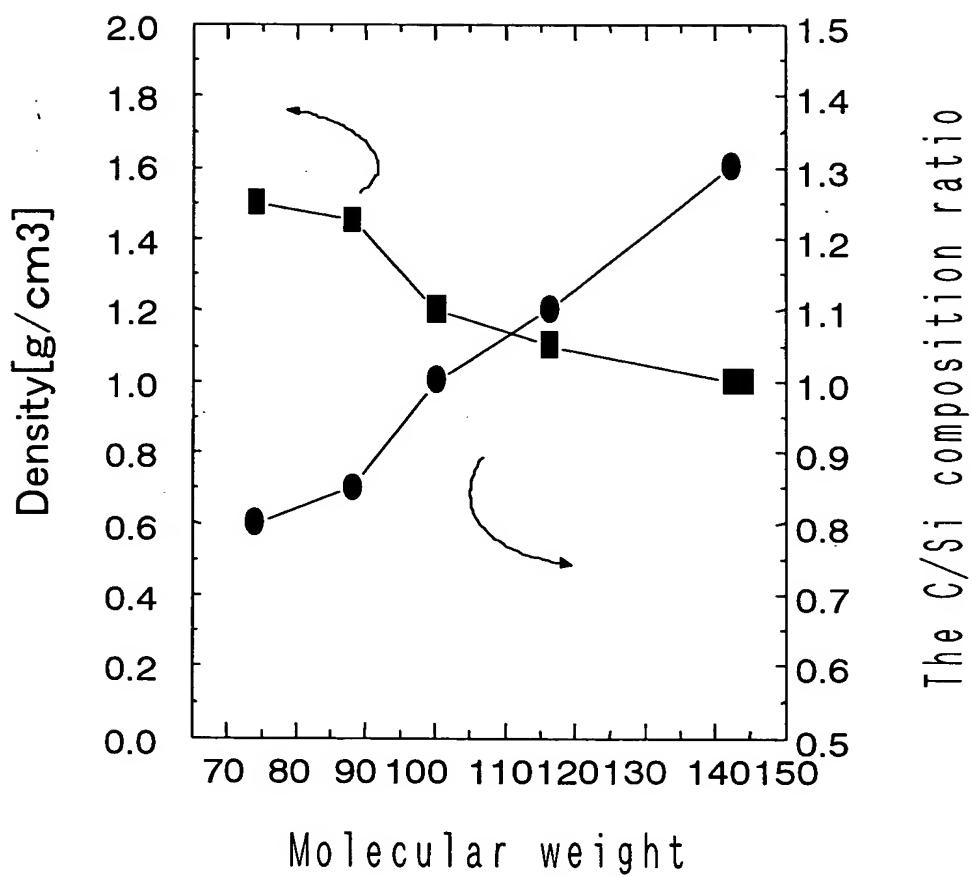


Fig. 20 The density and the composition of the SiCH film as a function of the molecular weight of the source gas.

The etching selection ratios of the SiOCH film  
with respect to the SiCNH film.

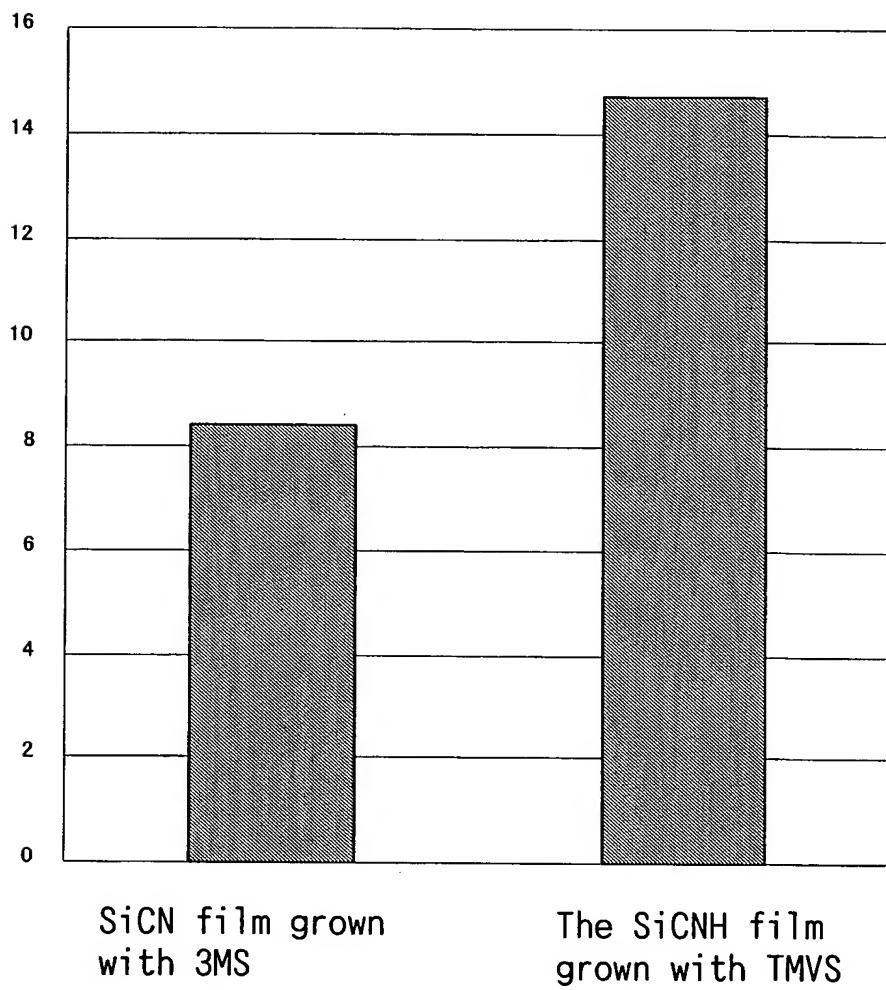


Fig. 21

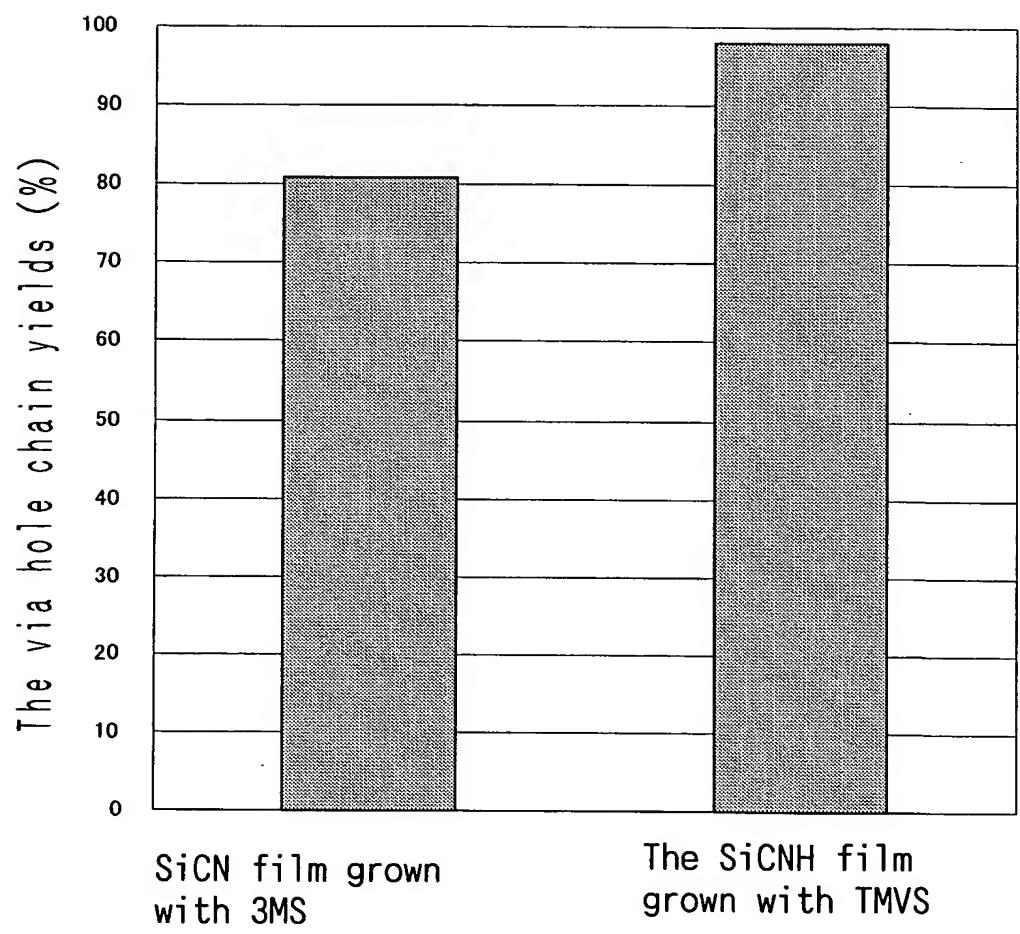


Fig. 22

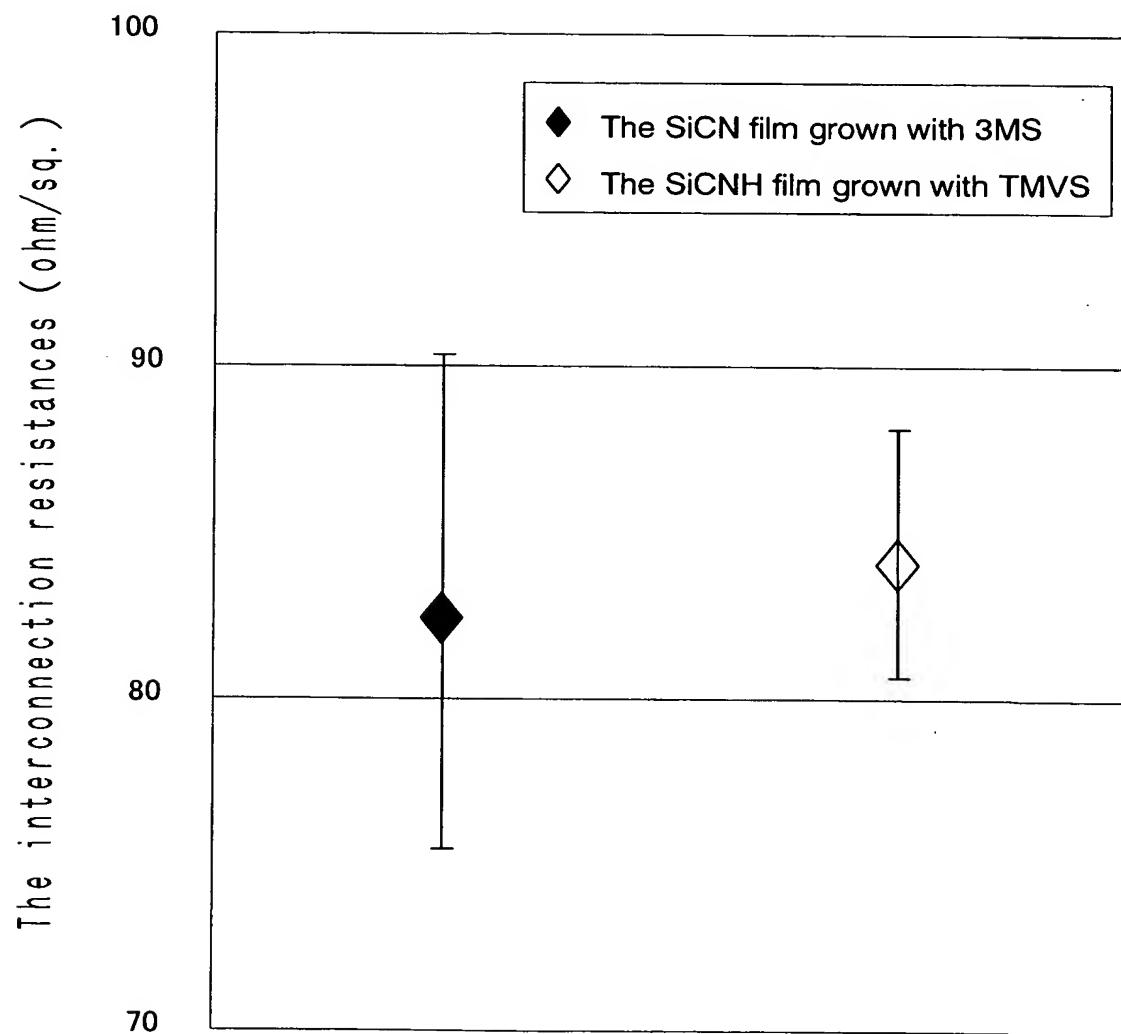


Fig. 23